

## ABSTRACT

The packets generated by each of multiple packet data applications are provided to a single Point-to-Point Protocol (PPP) stack and a single High-level Data Link Control (HDLC) framing layer to convert data packets into byte streams suitable for transmission through Radio Link Protocol (RLP) connections. Each of the resultant multiple byte streams is then provided to one of multiple RLP connections having different retransmission and delay properties. The RLP connection selected for sending data from each application is based on the grade of service most appropriate for the application. At the receiver, the data from the multiple RLP connections is provided to a single PPP stack.